

PATENT
Attorney Docket No.: AIC-00902

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Robert M. Watson, *et al.*

Serial No.: 09/882,912

Filed: June 15, 2001

For: **BIOCHIP DETECTION SYSTEM**

) Group Art Unit: 1743

) Examiner:

) **INFORMATION DISCLOSURE**
) **STATEMENT**

) 260 Sheridan Avenue, Suite 420
) Palo Alto, California 94306
) (650)833-0160

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Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The citations listed below, copies attached, may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. §§ 1.56 and 1.97. The Examiner is requested to make these citations of official record in this application.

Applicant has become aware of the following printed publication which may be material to the examination of this application:

- U.S. Patent No. US 6,271,042 B1;
- U.S. Patent No. 6,087,102;
- U.S. Patent No. 5,744,305;
- U.S. Patent No. 5,736,333;
- U.S. Patent No. 5,736,257;
- U.S. Patent No. 5,720,928;
- U.S. Patent No. 5,720,923;
- U.S. Patent No. 5,707,797;
- U.S. Patent No. 5,690,894;
- U.S. Patent No. 5,653,939;
- U.S. Patent No. 5,645,801;
- U.S. Patent No. 5,645,114;

CERTIFICATE OF MAILING (37 CFR § 1.8(a))

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Assistant Commissioner for Patents, Washington D.C. 20231

- 1 -

HAVERSTOCK & OWENS LLP.

Date: 9/20/01 By: *John D. Rasmussen*



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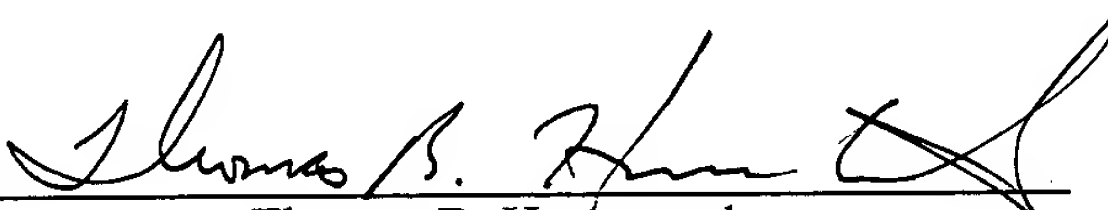
- U.S. Patent No. 5,639,428;
- U.S. Patent No. 5,635,402;
- U.S. Patent No. 5,633,365;
- U.S. Patent No. 5,632,957;
- U.S. Patent No. 5,631,734;
- U.S. Patent No. 5,605,662;
- U.S. Patent No. 5,597,694;
- U.S. Patent No. 5,593,839;
- U.S. Patent No. 5,585,639;
- U.S. Patent No. 5,571,639;
- U.S. Patent No. 5,563,033;
- U.S. Patent No. 5,547,839;
- U.S. Patent No. 5,545,531;
- U.S. Patent No. 5,541,113;
- U.S. Patent No. 5,529,756;
- U.S. Patent No. 5,522,272;
- U.S. Patent No. 5,512,490;
- U.S. Patent No. 5,510,270;
- U.S. Patent No. 5,472,672;
- U.S. Patent No. 5,468,606;
- U.S. Patent No. 5,453,247;
- U.S. Patent No. 5,427,930;
- U.S. Patent No. 5,395,594;
- U.S. Patent No. 5,356,776;
- U.S. Patent No. 5,324,633;
- U.S. Patent No. 5,324,483;
- U.S. Patent No. 5,297,288;
- U.S. Patent No. 5,262,530;
- U.S. Patent No. 5,239,484;
- U.S. Patent No. 5,192,980;
- U.S. Patent No. 5,132,418;
- U.S. Patent No. 5,112,736;
- U.S. Patent No. 5,096,807;

- U.S. Patent No. 5,093,268;
- U.S. Patent No. 5,091,652;
- U.S. Patent No. 5,053,454;
- U.S. Patent No. 5,047,524;
- U.S. Patent No. 4,816,513;
- U.S. Patent No. 4,537,861;
- U.S. Patent No. 4,458,066;
- U.S. Patent No. 4,415,732;
- European Publication No. EP 0 640 828 A1;
- PCT Publication No. WO 99/27140;
- PCT Publication No. WO 99/00520;
- PCT Publication No. WO 97/45730;
- PCT Publication No. WO 97/12030;
- PCT Publication No. WO 96/27025;
- PCT Publication No. WO 01/27599 A1;
- PCT Publication No. WO 00/79326 A1;
- PCT Publication No. WO 00/67062;
- PCT Publication No. WO 00/49397;
- L.E. Sindelar and J.M. Jaklevic, "High-Throughput DNA Synthesis in a Multichannel Format," Human Genome Center and Engineering Research and Development Department, Engineering Division, Lawrence Berkeley Laboratory, University of California, Berkeley, California 94720, pages 1 to 8;
- Robert L. Letsinger and V. Mahadevan, "Stepwise Synthesis of Oligodeoxyribonucleotides on an Insoluble Polymer Support," J Am Chem Soc, Vol. 88:22, pages 5319-5324, November 20, 1966;
- "Fast Forward; Genome," Stephen S. Hall, January 18, 1998, The New York Times Archives;
- "Multiplexed Biochemical Assays with Biological Chips," Stephen Fodor et al., Nature 364; pages 555-556, 1993;
- "Product Information" Genomic Solutions - GenTAC Genmics, pg. 1 of 1, September 12, 2001; and
- March Schena, et al., "Microarrays: Biotechnology's Discovery Platform for Functional Genomics" Vol. 16, pgs. 301-306, July 1998.

This Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that anyone or more of these citations constitutes prior art.

Respectfully submitted,
HAVERSTOCK & OWENS LLP

Dated: 9-19-01

By: 
Thomas B. Haverstock
Reg. No.: 32,571

Attorneys for Applicants

FORM PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: AIC-00902

Serial No.: 09/882,912

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Add Several Sheets If Necessary)

Applicant: Robert M. Watson Jr., et al.

(37 CFR § 1.98(b))

Filing Date: June 15, 2001

Group Art Unit: 1743

U.S. PATENT DOCUMENTS

Examiner Initials		Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
	AA	US 6,271,042 B1	08/07/01	Watson, Jr. et al.	436	172	08/26/98
	AB	6,087,102	07/11/00	Chenchik et al.	435	6	01/07/98
	AC	5,744,305	04/28/98	Fodor et al.	435	6	06/06/95
	AD	5,736,333	04/07/98	Livak et al.	435	6	06/04/96
	AE	5,736,257	04/07/98	Conrad	428	474.4	04/25/95
	AF	5,720,928	02/24/98	Schwartz	422	186	04/03/95
	AG	5,720,923	02/24/98	Haff et al.	422	68.1	08/31/94
	AH	5,707,797	01/13/98	Windle	435	6	06/23/94
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	AL	5,645,114	07/08/97	Bogen et al.	141	145	05/31/94
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	AO	5,633,365	05/27/97	Stokke et al.	536	24.31	04/28/95
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	AS	5,597,694	01/28/97	Munroe et al.	435	6	10/07/93
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	AU	5,585,639	12/17/96	Dorsel et al.	250	458.1	07/27/95
	AV	5,571,639	11/05/96	Hubbell et al.	430	5	05/24/94
	AW	5,563,033	10/08/96	Lawrence et al.	435	6	02/26/93
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	BI	5,395,594	03/07/95	Nokihara et al.	422	135	08/24/92

Examiner:

Date Considered:

EXAMINER:

Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(37 CFR § 1.98(b))

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U.S. PATENT DOCUMENTS

	BJ	5,356,776	10/18/94	Kambara et al.	435	6	09/09/92
	BK	5,324,633	06/28/94	Fodor et al.	435	6	11/22/91
	BL	5,324,483	06/28/94	Cody et al.	422	131	02/02/93
	BM	5,297,288	03/22/94	Hemminger et al.	395	700	06/10/92
	BN	5,262,530	11/16/93	Andrus et al.	536	25.31	07/27/90
	BO	5,239,484	08/24/93	Hayashi et al.	364	500	10/13/92
	BP	5,192,980	03/09/93	Dixon et al.	356	326	06/26/91
	BQ	5,132,418	07/21/92	Caruthers et al.	536	27	5,091,652
	BR	5,112,736	05/12/92	Caldwell et al.	435	6	06/14/89
	BS	5,096,807	03/17/92	Leaback	435	6	12/01/89
	BT	5,093,268	03/03/92	Leventis et al.	436	172	01/28/91
	BU	5,091,652	02/25/92	Mathies et al.	250	458.1	06/01/90
	BV	5,053,454	10/01/91	Judd	525	54.11	02/15/89
	BW	5,047,524	09/10/91	Andrus et al.	536	27	12/21/88
	BX	4,816,513	03/28/89	Bridgham et al.	525	54.11	05/22/87
	BY	4,537,861	08/27/85	Elings et al.	436	518	02/03/83
	BZ	4,458,066	07/03/84	Caruthers et al.	536	27	03/24/81
	CA	4,415,732	11/15/83	Caruthers et al.	536	27	03/27/81

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
	CB	EP 0 640 828 A1	03/01/95	EP	G01N	21/64		x
	CC	WO 99/27140	06/03/99	WO	C12Q	1/68		x
	CD	WO 99/00520	01/07/99	WO	C12Q	1/68		x
	CE	WO 97/45730	12/04/97	WO	G01N	33/50		x
	CF	WO 97/12030	04/03/97	WO	C12M	1/40		x
	CG	WO 96/27025	09/06/96	WO	C12Q	1/68		x
	CH	WO 01/27599 A1	04/19/01	WO	G01N	21/64		x
	CI	WO 00/79326 A1	12/28/00	WO	G01N	21/64		x
	CJ	WO 00/67062	11/09/00	WO	G02B	26/08		x
	CK	WO 00/49397	08/24/00	WO	G01N	27/447		x

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				Filing Date: June 15, 2001	Group Art Unit: 1743
OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)					
	CL	L.E. Sindelar and J.M. Jaklevic, "High-Throughput DNA Synthesis in a Multichannel Format," Human Genome Center and Engineering Research and Development Department, Engineering Division, Lawrence Berkeley Laboratory, University of California, Berkeley, California 94720, pages 1 to 8.			
	CM	Robert L. Letsinger and V. Mahadevan, "Stepwise Synthesis of Oligodeoxyribonucleotides on an Insoluble Polymer Support," J Am Chem Soc, Vol. 88:22, pages 5319-5324, November 20, 1966.			
	CN	"Fast Forward; Genome," Stephen S. Hall, January 18, 1998, The New York Times Archives			
	CO	"Multiplexed Biochemical Assays with Biological Chips," Stephen Fodor et al., Nature 364; pages 555-556, 1993.			
	CP	"Product Information" Genomic Solutions - GenTAC Genmics, pg. 1 of 1, September 12, 2001.			
	CQ	March Schena, et al., "Microarrays: Biotechnology's Discovery Platform for Functional Genomics" Vol. 16, pgs. 301-306, July 1998.			
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